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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

For release July 24, 1964 | ATLANTA, GEORGIA 30333 | Vol. 13, No. 29

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JULY 18, 1964

TETANUS – New York State

On July 15, a 19-year-old Puerto Rican female was admitted to a New York hospital with symptoms and signs of clinical tetanus. Despite tetanus antitoxin therapy she expired on July 16. Physical examination before death failed to reveal any evidence of recent trauma with the exception of an inoculation site in the left deltoid region.

A post-mortem examination also revealed no evidence of trauma or localized infection except for the inoculation site. A special dissection was made in the inoculation area and a small pocket of purulent material was found deep in the deltoid tissues, presumably at the base of the inoculation tract. Bacteriologic examination of this material revealed the presence of organisms morphologically typical of *Clostridium tetani*, although final bacteriologic identification is not completed as yet.

Investigation revealed that the patient left Puerto Rico July 12, arriving in New York the same day. On each of the two days prior to her departure from Puerto Rico, she had received an inoculation for an allergic condition. This condition of long standing had prompted numerous similar injections in the past, apparently without difficulty.

She was not thought to have received any tetanus toxoid immunizations. Adequate information concerning circumstances of the presumed offending inoculation and the medication given could not be obtained.

(Reported by Robert M. Albrecht, M.D., M.P.H., Director, and J. L. Freitag, M.D., Office of Epidemiology, New York State Dept. of Health.)

UNIVERSITY OF FLORIDA LIBRARIES AUG 1964

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

Disease	29th Week Ended			Cumulative, First 29 Weeks		
	July 18, 1964	July 20, 1963	Median 1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	50	51	---	879	759	---
Brucellosis	5	13	13	217	202	341
Diphtheria	3	1	4	152	144	319
Encephalitis, primary infectious	62	35	---	1,068	887	---
Encephalitis, post-infectious	21		---	588		---
Hepatitis, infectious including serum hepatitis	563	632	647	23,115	25,424	25,426
Measles	2,639	3,522	3,730	425,158	348,248	374,955
Meningococcal infections	39	37	37	1,650	1,550	1,447
Poliomyelitis, Total	-	11	29	52	125	288
Paralytic	-	9	24	40	103	214
Nonparalytic	-	1	---	9	13	---
Unspecified	-	1	---	3	9	---
Streptococcal Sore Throat and Scarlet fever	3,763	3,911	---	263,397	225,980	---
Tetanus	5	10	---	135	136	---
Tularemia	12	6	---	176	152	---
Typhoid fever	14	10	21	218	228	355
Rabies in Animals	95	71	71	2,654	2,238	2,236

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis:	18
Botulism:	10	Rabies in Man:	-
Leptospirosis: N.J. - 2	23	Smallpox:	-
Malaria:	48	Typhus-	
Plague:	-	Murine:	13
		Rky Mt. Spotted: D.C.-1, Del-1, N.C.-4, Va-3, Ohio-3, W.Va-1, Ga-1, Tenn-3, Calif-1	91

TICK PARALYSIS – Arkansas

On the morning of May 30, 1964, a 58-year-old, white male telephone lineman developed weakness and paralysis of his left hand and arm. The previous night his wife had found and attempted to remove a tick from his scalp.

The patient was hospitalized where a physical examination demonstrated numerous old tick bites and 5 new bites over the left scapular region. The examining physician located and removed from his scalp the remainder of the tick which had been partially removed by his wife the previous night. Neurological examination revealed weakness of the flexor muscles of the left arm and opponens function of the left thumb with paralysis and mild weakness of extensor muscles as well. The patient remained afebrile and a complete medical evaluation failed to reveal any underlying metabolic or neurologic disease.

The patient fully recovered within 36 hours after complete removal of the tick from his scalp.

(Reported by Willian L. Bunche, Jr., M.D., Acting Director, Division of Communicable Disease Control, Arkansas State Board of Health; Dr. Thomas J. Rainey, Medical Director, and Mrs. Doris McGuire, Public Health Nurse, Pulaski County Health Department.)

Editor's Note: The subject of tick paralysis has been extensively reviewed.[1,2] The usual clinical picture is described as ascending flaccid paralysis beginning in the lower extremities which may progress to complete paralysis and death unless the tick is completely removed. Isolated nerve palsies, as would appear to be present in this case also have been described.

The illness occurs most frequently during the summer months when exposure to ticks is most common; thus; poliomyelitis has been a major consideration in the differential diagnosis. The absence of fever, muscle spasm, and neck stiffness, the lack of spinal fluid abnormalities, and the identification of the offending tick are usually adequate to clarify this differentiation. Following removal of the tick, recovery is dramatically rapid, with disappearance of neurologic abnormalities usually within 2 days and complete recovery within 1 week.

In the United States, most human cases have been associated with bites from the wood tick, *Dermacentor andersoni*, in the West and Northwest, and the dog tick, *Dermacentor variabilis*, in the East.

The substance responsible for the paralysis has not been identified but is believed to be a toxin originating from saliva of the tick or from ova of the gravid female. Thus, care should be taken to completely remove all parts of the tick as rapidly as possible.

REFERENCES

1. Abbott, K. H.: Tick Paralysis: Review. Proceedings Mayo Clinic, 18:39, February 10; 59, February 24, 1960.

2. Stanbury, J. B., and Huyck, J. H.: Tick Paralysis: Critical Review. Medicine, 24:219-242, September 1945.

ANTIMONY POISONING - Illinois

A group of 35 pre-school age children all experienced vomiting from 30 to 45 minutes after drinking a raspberry flavored beverage at a Chicago Sunday school Halloween party. Some children also became pallid, others dizzy. Three were hospitalized for less than 24 hours. No fatalities occurred.

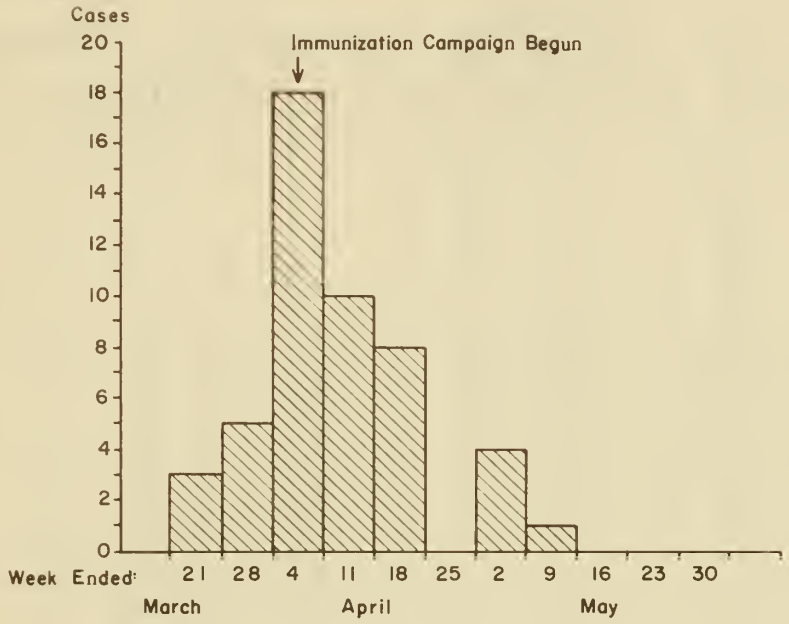
Only this drink and potato chips were served. Because of the rapid onset of symptoms, the premises were carefully inspected for evidence of insecticides, rodenticides, and other toxic materials. None was found.

The investigators learned that the beverage had been prepared by mixing the contents of several packages of the raspberry powder with sugar and water in an old porcelain roasting pan, and then refrigerated for 40 hours prior to serving. No trace of chemical could be found in the powder concentrate or in the potato chips. Antimony was detected in the small quantity of remaining beverage and from acid washings of the pan; insufficient quantity remained for quantitative analysis. Accordingly, the Chicago Board of Health laboratory workers repeated the entire procedure, using the same roasting pan; 2.8 mg. percent antimony was detected.

(Reported by Samuel L. Andelman, M.D., M.P.H., Commissioner, Chicago Board of Health).

Editor's Note: Antimony is often contained in the binding between the enamel and metal, especially in older utensils. Apparently, the citric acid partially dissolved the binding behind the pan's worn enamel coat, thus releasing sufficient antimony to cause the symptoms experienced by the children.

POLIOMYELITIS CASES BY DATE OF REPORT
BAHAMAS, 1964



INTERNATIONAL NOTES

POLIOMYELITIS - Bahamas

Bahamas has experienced a poliomyelitis epidemic from March through May which totalled 53 cases, including 2 deaths; Type I polio virus was identified as the etiologic agent.

The first case was clinically diagnosed on March 18, but the authorities believe the outbreak began 3 weeks earlier. A graph of the cases by date of report appears above. Four cases were reported in late May and June; all 4 were delayed reports.

The cases occurred in areas near Nassau, on New Providence Island. Of the first 28 cases reported, 2 were fatal involving children, aged 2 and 5. One severe case occurred in a 50-year-old patient. The remaining 25 cases were mild, affecting children under 5 years of age.

Immunization commenced on the afternoon of April 2 and by April 6, approximately 70,000 of the 80-85,000 on the island had been immunized. The second feeding of the trivalent vaccine has been carried out; and 59,498 or 71.4 percent of the population in New Providence Island, and 45,077 or 93 percent of the population in the Out Islands have been vaccinated.

(Reported by Dr. Ruth Puffer, Pan American Health Organization, Washington, D. C.)

INFECTIOUS HEPATITIS – Costa Rica

The Province of Alajuela, in north central Costa Rica experienced an increase in reported cases of infectious hepatitis during 1963 which appears to be continuing through this year. Annual totals of reported icteric infectious hepatitis for 1962 and 1963 and for the period January 1 through May 10 of 1964 are shown in the following table:

	Population (1961)	1962		1963		1964*	
		Cases	Rate per 100,000	Cases	Rate per 100,000	Cases	Rate per 100,000
Costa Rica total	1,286,705	225	17.4	371	28.8	254	17.5
Alajuela Province	223,143	44	19.7	164	73.5	152	68.1
Other Costa Rica	1,063,562	181	17.0	207	19.5	102	9.6

*Through May 10 only.

As will be noted, the incidence of infectious hepatitis in Alajuela Province in 1963 was over three times that observed in 1962; the 1964 rate through May 10, already approximates that for the whole of 1963. Whereas Costa Rica as a whole has shown an increase in incidence during this same period, it would appear that most of this increase may be accounted for by Alajuela Province.

(Continued on page 256)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JULY 18, 1964 AND JULY 20, 1963 (29TH WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	50	51	62	21	-	11	52	125	-	9	40	103
NEW ENGLAND.....	-	1	-	-	-	1	1	2	-	1	1	2
Maine.....	-	1	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	1	-	1	-	1	-	1
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	-	1	-
MIDDLE ATLANTIC.....	8	2	11	4	-	1	7	32	-	1	7	24
New York City.....	-	-	4	-	-	-	1	-	-	-	1	-
New York, Up-State.	5	1	2	3	-	-	4	5	-	-	4	5
New Jersey.....	-	-	5	-	-	-	2	-	-	-	2	-
Pennsylvania.....	3	1	-	1	-	1	-	27	-	1	-	19
EAST NORTH CENTRAL...	9	10	6	3	-	2	6	21	-	-	5	14
Ohio.....	-	6	1	-	-	2	2	7	-	-	2	3
Indiana.....	1	-	-	-	-	-	-	2	-	-	-	1
Illinois.....	5	2	3	3	-	-	3	7	-	-	3	6
Michigan.....	3	-	2	-	-	-	1	3	-	-	-	3
Wisconsin.....	-	2	-	-	-	-	-	2	-	-	-	1
WEST NORTH CENTRAL...	2	1	2	1	-	1	2	3	-	1	1	3
Minnesota.....	2	-	1	-	-	1	-	3	-	1	-	3
Iowa.....	-	-	-	1	-	-	-	-	-	-	-	-
Missouri.....	-	1	-	-	-	-	2	-	-	-	1	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	1	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	6	2	15	2	-	3	21	16	-	3	16	13
Delaware.....	1	2	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	1	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	2	-	1	2	-	-	-	2	-	-	-	1
West Virginia.....	1	-	-	-	-	-	1	1	-	-	1	1
North Carolina.....	-	-	2	-	-	-	8	3	-	-	4	3
South Carolina.....	-	-	-	-	-	-	2	3	-	-	2	2
Georgia.....	-	-	-	-	-	-	1	1	-	-	1	-
Florida.....	2	-	11	-	-	3	8	6	-	3	7	6
EAST SOUTH CENTRAL...	1	5	19	1	-	-	4	17	-	-	2	15
Kentucky.....	-	3	19	-	-	-	-	-	-	-	-	-
Tennessee.....	1	-	-	1	-	-	2	4	-	-	1	4
Alabama.....	-	2	-	-	-	-	2	11	-	-	1	9
Mississippi.....	-	-	-	-	-	-	-	2	-	-	-	2
WEST SOUTH CENTRAL...	8	4	3	-	-	3	4	18	-	3	4	18
Arkansas.....	-	1	1	-	-	-	-	1	-	-	-	1
Louisiana.....	1	-	1	-	-	1	-	13	-	1	-	13
Oklahoma.....	-	1	-	-	-	-	1	-	-	-	1	-
Texas.....	7	2	1	-	-	2	3	4	-	2	3	4
MOUNTAIN.....	2	4	1	-	-	-	6	1	-	-	3	1
Montana.....	-	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	2	3	-	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	3	-	-	-	-	-
Arizona.....	-	1	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	1	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	14	22	5	10	-	-	1	15	-	-	1	13
Washington.....	-	1	-	1	-	-	-	1	-	-	-	1
Oregon.....	-	-	-	1	-	-	1	2	-	-	1	1
California.....	14	21	5	8	-	-	-	12	-	-	-	11
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	4	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 18, 1964 AND JULY 20, 1963 (29TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	5	217	3	152	563	239	279	45	23,115	25,424	14	218
NEW ENGLAND.....	-	2	-	42	23	12	11	-	2,280	2,751	-	12
Maine.....	-	-	-	39	4	3	1	-	748	1,274	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	164	209	-	-
Vermont.....	-	-	-	-	2	1	1	-	285	37	-	-
Massachusetts.....	-	2	-	3	6	3	3	-	471	802	-	5
Rhode Island.....	-	-	-	-	5	4	1	-	125	63	-	6
Connecticut.....	-	-	-	-	6	1	5	-	487	366	-	1
MIDDLE ATLANTIC.....	-	3	1	6	146	69	77	-	5,234	4,860	1	33
New York City.....	-	-	1	2	20	8	12	-	772	685	1	14
New York, Up-State.	-	1	-	-	57	36	21	-	2,346	2,164	-	7
New Jersey.....	-	-	-	2	33	9	24	-	945	745	-	1
Pennsylvania.....	-	2	-	2	36	16	20	-	1,171	1,266	-	11
EAST NORTH CENTRAL...	-	25	1	7	82	30	38	14	3,496	4,124	6	56
Ohio.....	-	1	-	-	19	7	12	-	925	1,148	1	24
Indiana.....	-	1	-	-	4	3	1	-	311	380	2	12
Illinois.....	-	15	-	6	21	10	11	-	600	875	3	10
Michigan.....	-	4	1	1	24	10	14	-	1,403	1,539	-	7
Wisconsin.....	-	4	-	-	14	-	-	14	257	182	-	3
WEST NORTH CENTRAL...	1	100	-	21	19	11	8	-	1,256	1,171	-	16
Minnesota.....	1	6	-	11	6	1	5	-	123	185	-	1
Iowa.....	-	58	-	-	1	1	-	-	178	219	-	3
Missouri.....	-	8	-	-	5	3	2	-	321	446	-	6
North Dakota.....	-	2	-	2	2	2	-	-	49	29	-	2
South Dakota.....	-	13	-	1	-	-	-	-	106	63	-	1
Nebraska.....	-	11	-	-	-	-	-	-	32	86	-	-
Kansas.....	-	2	-	7	5	4	1	-	447	143	-	3
SOUTH ATLANTIC.....	2	21	1	30	57	25	32	-	2,187	2,625	3	47
Delaware.....	-	-	-	-	-	-	-	-	41	37	-	-
Maryland.....	-	-	-	-	7	3	4	-	420	318	1	3
Dist. of Columbia..	-	-	-	-	1	1	-	-	34	74	-	-
Virginia.....	2	10	-	-	10	5	5	-	338	558	-	10
West Virginia.....	-	-	-	-	8	6	2	-	347	412	-	-
North Carolina.....	-	2	-	-	13	7	6	-	395	658	2	14
South Carolina.....	-	-	1	6	4	1	3	-	75	106	-	5
Georgia.....	-	6	-	20	1	-	1	-	52	111	-	1
Florida.....	-	3	-	4	13	2	11	-	485	351	-	14
EAST SOUTH CENTRAL...	1	12	-	6	32	10	22	-	1,593	2,549	1	22
Kentucky.....	-	3	-	-	4	1	3	-	641	734	-	6
Tennessee.....	-	4	-	1	11	8	3	-	542	1,002	1	9
Alabama.....	-	3	-	3	13	1	12	-	268	396	-	5
Mississippi.....	1	2	-	2	4	-	4	-	142	417	-	2
WEST SOUTH CENTRAL...	-	21	-	24	37	18	16	3	1,716	1,741	1	12
Arkansas.....	-	4	-	-	2	2	-	-	176	192	1	5
Louisiana.....	-	1	-	5	11	9	2	-	393	332	-	3
Oklahoma.....	-	3	-	-	1	-	1	-	91	87	-	3
Texas.....	-	13	-	19	23	7	13	3	1,056	1,130	-	1
MOUNTAIN.....	-	18	-	2	34	6	-	28	1,432	1,677	2	7
Montana.....	-	-	-	-	1	1	-	-	127	226	-	-
Idaho.....	-	-	-	-	5	-	-	5	157	267	-	-
Wyoming.....	-	-	-	-	-	-	-	-	45	24	-	1
Colorado.....	-	-	-	-	15	3	-	12	410	355	-	-
New Mexico.....	-	1	-	1	2	2	-	-	199	203	2	2
Arizona.....	-	2	-	1	10	-	-	10	327	396	-	4
Utah.....	-	14	-	-	1	-	-	1	125	193	-	-
Nevada.....	-	1	-	-	-	-	-	-	42	13	-	-
PACIFIC.....	1	15	-	14	133	58	75	-	3,921	3,926	-	13
Washington.....	-	-	-	13	5	1	4	-	441	691	-	1
Oregon.....	-	2	-	-	25	19	6	-	435	503	-	-
California.....	1	13	-	1	100	38	62	-	2,844	2,609	-	12
Alaska.....	-	-	-	-	-	-	-	-	122	95	-	-
Hawaii.....	-	-	-	-	3	-	3	-	79	28	-	-
Puerto Rico	-	-	-	7	19	18	1	-	463	445	-	9

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JULY 18, 1964 AND JULY 20, 1963 (29TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	2,639	39	1,650	1,550	3,763	3,911	5	135	12	176	95	2,654
NEW ENGLAND.....	277	-	47	95	347	316	-	5	-	-	2	22
Maine.....	71	-	5	16	16	51	-	-	-	-	2	20
New Hampshire.....	1	-	1	4	-	19	-	-	-	-	-	1
Vermont.....	28	-	1	3	-	15	-	-	-	-	-	1
Massachusetts.....	90	-	19	44	25	27	-	5	-	-	-	-
Rhode Island.....	38	-	7	9	18	27	-	-	-	-	-	-
Connecticut.....	49	-	14	19	288	177	-	-	-	-	-	-
MIDDLE ATLANTIC.....	328	5	205	213	142	136	3	12	-	-	3	77
New York City.....	96	-	28	30	5	6	-	-	-	-	-	-
New York, Up-State.	145	3	58	66	122	118	2	4	-	-	3	73
New Jersey.....	62	2	71	31	12	3	-	5	-	-	-	-
Pennsylvania.....	25	-	48	86	3	9	1	3	-	-	-	4
EAST NORTH CENTRAL...	664	8	237	244	303	197	1	22	1	15	20	366
Ohio.....	104	1	63	71	22	17	1	5	-	1	11	190
Indiana.....	75	1	36	31	48	14	-	3	1	2	-	19
Illinois.....	122	5	59	44	41	62	-	7	-	9	2	77
Michigan.....	208	1	53	71	136	64	-	6	-	1	3	35
Wisconsin.....	155	-	26	27	56	40	-	1	-	2	4	45
WEST NORTH CENTRAL...	53	3	106	92	124	82	1	8	3	38	19	849
Minnesota.....	2	3	25	19	1	2	-	1	1	2	7	256
Iowa.....	10	-	6	5	17	31	1	3	-	1	7	304
Missouri.....	-	-	52	31	-	-	-	2	-	21	4	133
North Dakota.....	38	-	11	4	76	46	-	-	-	-	-	45
South Dakota.....	3	-	-	5	12	1	-	1	2	6	1	69
Nebraska.....	-	-	6	20	-	-	-	-	-	-	-	23
Kansas.....	NN	-	6	8	18	2	-	1	-	8	-	19
SOUTH ATLANTIC.....	223	3	357	291	439	273	-	42	-	19	15	354
Delaware.....	20	-	6	2	8	4	-	-	-	-	-	-
Maryland.....	15	1	25	44	66	12	-	3	-	-	-	-
Dist. of Columbia..	1	-	12	4	7	-	-	-	-	-	-	-
Virginia.....	54	1	40	71	77	72	-	5	-	4	4	196
West Virginia.....	89	-	26	16	123	72	-	1	-	-	-	23
North Carolina.....	1	1	60	51	25	21	-	12	-	4	-	4
South Carolina.....	6	-	48	13	15	22	-	3	-	-	-	1
Georgia.....	2	-	46	22	2	1	-	1	-	11	6	75
Florida.....	35	-	94	68	116	69	-	17	-	-	5	55
EAST SOUTH CENTRAL...	142	5	150	119	591	834	-	15	2	21	12	335
Kentucky.....	15	3	50	25	37	148	-	2	-	1	-	44
Tennessee.....	121	1	50	53	518	615	-	8	2	14	11	276
Alabama.....	4	1	32	21	27	1	-	4	-	3	1	15
Mississippi.....	2	-	18	20	9	70	-	1	-	3	-	-
WEST SOUTH CENTRAL...	305	1	151	153	519	647	-	14	5	56	14	384
Arkansas.....	-	-	19	10	-	-	-	5	3	33	4	97
Louisiana.....	1	1	103	63	2	6	-	3	-	1	-	31
Oklahoma.....	2	-	7	29	11	13	-	-	2	18	4	67
Texas.....	302	-	22	51	506	628	-	6	-	4	6	189
MOUNTAIN.....	214	3	62	52	730	888	-	4	1	27	1	94
Montana.....	66	-	-	3	17	30	-	-	-	16	-	-
Idaho.....	29	-	3	4	46	68	-	-	-	-	-	-
Wyoming.....	-	-	3	4	16	11	-	1	-	4	-	-
Colorado.....	17	-	11	12	296	359	-	-	-	-	-	6
New Mexico.....	8	3	26	4	183	255	-	1	-	-	-	44
Arizona.....	37	-	5	8	97	92	-	1	-	-	1	43
Utah.....	50	-	6	14	75	73	-	1	1	7	-	-
Nevada.....	7	-	8	3	-	-	-	-	-	-	-	1
PACIFIC.....	433	11	335	291	568	538	-	13	-	-	9	173
Washington.....	18	-	25	21	9	66	-	1	-	-	-	-
Oregon.....	157	2	20	20	7	16	-	-	-	-	1	5
California.....	234	8	273	231	519	404	-	11	-	-	8	168
Alaska.....	6	1	7	11	8	18	-	-	-	-	-	-
Hawaii.....	18	-	10	8	25	34	-	1	-	-	-	-
Puerto Rico	54	-	26	5	6	9	2	46	-	-	-	14

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	6/27	7/4	7/11	7/18
NEW ENGLAND:				
Boston, Mass.	243	196	245	195
Bridgeport, Conn.	53	30	57	54
Cambridge, Mass.	38	35	19	29
Fall River, Mass.	26	24	28	21
Hartford, Conn.	37	60	50	61
Lowell, Mass.	22	18	28	15
Lynn, Mass.	28	17	33	21
New Bedford, Mass.	29	35	19	24
New Haven, Conn.	61	48	53	50
Providence, R.I.	69	65	59	65
Somerville, Mass.	10	15	16	8
Springfield, Mass.	49	26	53	42
Waterbury, Conn.	34	29	25	32
Worcester, Mass.	63	45	50	55
MIDDLE ATLANTIC:				
Albany, N.Y.	59	24	72	51
Allentown, Pa.	34	31	21	31
Buffalo, N.Y.	151	118	161	121
Camden, N.J.	34	46	46	35
Elizabeth, N.J.	32	26	30	32
Erie, Pa.	34	48	40	49
Jersey City, N.J.	57	59	81	60
Newark, N.J.	133	70	120	106
New York City, N.Y.	1,740	1,520	1,805	1,530
Paterson, N.J.	36	32	38	37
Philadelphia, Pa.	471	579	531	533
Pittsburgh, Pa.	228	178	210	173
Reading, Pa.	46	70	46	54
Rochester, N.Y.	104	93	91	104
Schenectady, N.Y.	23	18	22	20
Scranton, Pa.	31	30	50	26
Syracuse, N.Y.	60	69	67	46
Trenton, N.J.	53	55	36	51
Utica, N.Y.	27	34	40	27
Yonkers, N.Y.	42	19	30	25
EAST NORTH CENTRAL:				
Akron, Ohio	79	45	77	49
Canton, Ohio	34	40	43	36
Chicago, Ill.	766	651	943	688
Cincinnati, Ohio	134	140	169	171
Cleveland, Ohio	210	224	225	179
Columbus, Ohio	99	126	124	106
Dayton, Ohio	65	59	92	93
Detroit, Mich.	345	411	356	348
Evansville, Ind.	44	33	35	32
Flint, Mich.	61	39	47	51
Fort Wayne, Ind.	31	45	32	28
Gary, Ind.	48	28	46	28
Grand Rapids, Mich.	27	46	51	36
Indianapolis, Ind.	139	154	194	141
Madison, Wis.	33	20	55	35
Milwaukee, Wis.	113	106	157	117
Peoria, Ill.	28	20	18	30
Rockford, Ill.	23	26	32	24
South Bend, Ind.	42	39	26	32
Toledo, Ohio	102	101	87	109
Youngstown, Ohio	60	54	58	51
WEST NORTH CENTRAL:				
Des Moines, Iowa	53	37	65	66
Duluth, Minn.	21	19	23	32
Kansas City, Kans.	39	33	52	29
Kansas City, Mo.	126	107	157	107
Lincoln, Nebr.	19	16	48	21
Minneapolis, Minn.	113	109	143	102
Omaha, Nebr.	70	51	91	70
St. Louis, Mo.	260	180	243	199
St. Paul, Minn.	72	72	77	56
Wichita, Kans.	53	43	48	52
SOUTH ATLANTIC:				
Atlanta, Ga.	133	123	124	112
Baltimore, Md.	276	237	235	264
Charlotte, N.C.	28	28	36	31
Jacksonville, Fla.	72	58	71	55
Miami, Fla.	69	70	71	84
Norfolk, Va.	67	58	41	38
Richmond, Va.	98	64	92	70
Savannah, Ga.	36	35	51	48
St. Petersburg, Fla.	80	83	59	80
Tampa, Fla.	81	53	62	59
Washington, D.C.	166	196	189	191
Wilmington, Del.	42	33	55	48
EAST SOUTH CENTRAL:				
Birmingham, Ala.	103	96	82	76
Chattanooga, Tenn.	46	74	55	52
Knoxville, Tenn.	44	31	45	25
Louisville, Ky.	95	164	125	98
Memphis, Tenn.	128	95	141	137
Mobile, Ala.	49	25	61	45
Montgomery, Ala.	46	52	32	27
Nashville, Tenn.	92	70	102	92
WEST SOUTH CENTRAL:				
Austin, Tex.	26	39	27	32
Baton Rouge, La.	27	22	37	40
Corpus Christi, Tex.	35	26	28	33
Dallas, Tex.	151	147	123	133
El Paso, Tex.	39	26	49	37*
Fort Worth, Tex.	71	46	83	62
Houston, Tex.	180	151	199	187
Little Rock, Ark.	53	29	77	56
New Orleans, La.	188	138	188	198
Oklahoma City, Okla.	69	78	104	69
San Antonio, Tex.	103	85	116	107
Shreveport, La.	54	49	53	50
Tulsa, Okla.	47	40	71	66
MOUNTAIN:				
Albuquerque, N. Mex.	34	16	39	38
Colorado Springs, Colo.	17	18	19	22
Denver, Colo.	106	150	116	139
Ogden, Utah	14	17	15	16
Phoenix, Ariz.	88	81	115	74
Pueblo, Colo.	18	17	14	17
Salt Lake City, Utah	52	38	53	58
Tucson, Ariz.	39	37	41	51
PACIFIC:				
Berkeley, Calif.	16	18	18	17
Fresno, Calif.	51	50	55	57
Glendale, Calif.	39	43	36	30
Honolulu, Hawaii	42	37	45	48
Long Beach, Calif.	68	59	58	82
Los Angeles, Calif.	475	395	462	575
Oakland, Calif.	104	129	105	128
Pasadena, Calif.	37	30	31	52
Portland, Oreg.	165	82	107	103
Sacramento, Calif.	49	56	56	54
San Diego, Calif.	96	97	79	82
San Francisco, Calif.	178	191	167	166
San Jose, Calif.	26	32	25	38
Seattle, Wash.	145	105	142	128
Spokane, Wash.	64	43	50	45
Tacoma, Wash.	29	45	35	37
San Juan, P.R.	(---)	(---)	(---)	(---)

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages..... 11,085
4(B) Pneumonia-Influenza Deaths, all ages..... 376
4(C) Total Deaths under 1 Year of Age..... 802
4(D) Total Deaths, Persons 65 years and over..... 5,979

NOTF: All deaths by place of occurrence.

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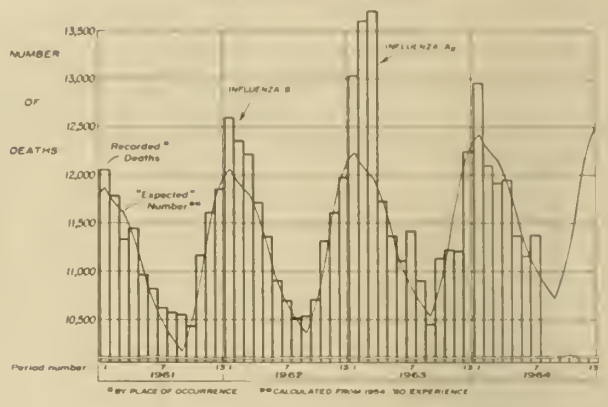
TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending July 18 was 11,378 as compared with an expected weekly average of 11,004.

TOTAL DEATHS RECORDED IN 108 U.S. CITIES
Average Number per Week by Four-Week Periods



TOTAL DEATHS REPORTED IN 108 CITIES

	Week Ending				4 Week	Weekly
	6/27	7/4	7/11	7/18	Total	Average
Observed	11,632	10,584	12,213	11,085	45,514	11,378
Expected	11,069	11,021	10,981	10,946	44,017	11,004
Excess	563	−437	1,232	139	1,497	374

(See Table, page 255)

(International Notes continued from page 251)

The 1964 cases have occurred in the Cantons of Grecia, Palmares and San Ramon; 59 percent were under 20 years of age, 23 percent in the 20-39 age group. The principal mode of transmission is considered to be person-to-person spread.

(Reported in Weekly Epidemiological Report, Pan American Sanitary Bureau, WHO, July 8, 1964.)

QUARANTINE MEASURES

Immunization Information for International Travel
1963-64 Edition
Public Health Service Publication No. 384

The following information should be added to the list of Yellow Fever Vaccination Centers in Section 6:

Page 69

City:	El Centro, California
Center:	Imperial County Health Center
Clinic Hours:	Friday – 2:00 p.m.
Fee:	Yes

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 11,000 IS PUBLISHED BY THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER — JAMES L. GODDARD, M.D.
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LAWRENCE K. ALTMAN, M.D., EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: - - - DATA NOT AVAILABLE
- QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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